

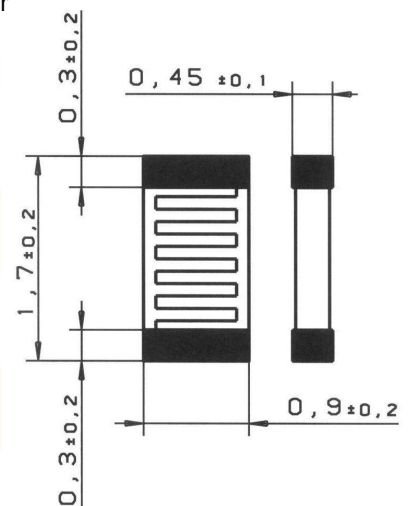
## Platinum Resistance Temperature Detector

## SMD 0603 (V)

The PRTD SMD 0603 is designed for automatic mounting in large volume applications on printed circuit boards where long time stability, interchangeability combined with low costs are important.

Nominal Resistance R <sub>0</sub>	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
1000 Ohm at 0°C	Class B	F 0.6	32 207 638
	Class 2B	F 0.3	32 207 637

<b>Specification</b>	DIN EN 60751	
<b>Tolerance</b>	Class B (R <sub>0</sub> : ±0.12%) Class 2B (R <sub>0</sub> : ±0.24%)	
<b>Temperature range</b>	-50°C to +130°C Tolerance Class B or 2B: -50°C up to +130°C	
<b>Temperature coefficient</b>	TCR = 3850 ppm/K	
<b>Soldering connection</b>	End-termination galvanic tin plated with Ni- barrier layer	
<b>Long term stability</b>	max R <sub>0</sub> -Drift 0,06% after 250h with 130°C	
<b>Environmental conditions</b>	unhoused for dry environments only	
<b>Insulation resistance</b>	> 100 MΩ at 20°C; > 2 MΩ at 130°C (glass cover)	
<b>Measuring current</b>	1000Ω: 0.1 up to 0.3mA (self heating has to be considered)	
<b>Self heating</b>	0.8 K/mW at 0°C	
<b>Reaction time</b>	Flowing water (v= 0.4m/s):	t <sub>0.5</sub> < 0.1s t <sub>0.9</sub> < 0.25s
	Air flow (v= 2m/s):	t <sub>0.5</sub> < 2.5s t <sub>0.9</sub> < 8 s
<b>Processing instructions</b>	face up-mounting: reflow soldering or wave soldering, e. g. double wave ≤ 8s / 235°C	
<b>Storage life</b>	Min. 9 months (in dry environment)	
<b>Packaging</b>	„Face-up“ in blister reel, 4000 pcs	
<b>Note</b>	Other tolerances, values of resistance are available on request.	



We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

Heraeus Sensor Technology GmbH, Reinhard- Heraeus- Ring 23, 63801 Kleinostheim, Germany  
Phone: +49 (0) 6181/35-8098, Fax: +49 (0)6181/35-8101, E-Mail: [info.HSND@Heraeus.com](mailto:info.HSND@Heraeus.com) Web: [www.heraeus-sensor-technology.com](http://www.heraeus-sensor-technology.com)

Name of document: 30910036 Index B  
Status: 10/2009